## 1727 KING STREET

## IN THE CLAIMS:

Please cancel claims 1 and 15-28 without prejudice or disclaimer of the subject matter thereof.

The following is a complete listing of claims in this application.

- 1. (canceled)
- 2. (currently amended) The process according to claim  $\pm$ 55, wherein the pre-treatment step P comprises an activation A in a strongly strong acid or alkaline bath to enable fast dissolution of surface oxides.
- 3. (currently amended) The process according to claim  $\pm$ 55, wherein the pre-treatment step P comprises a pre-nickel plating step  $\frac{PN}{PN}$  to coat the aluminum conductor with a primary nickel deposit.
- 4. (original) The process according to claim 3, wherein the equivalent average thickness of the said primary nickel deposit is less than about 0.1 µm.
- 5. (currently amended) The process according to claim  $\pm$ 55, wherein the pre-treatment step P comprises an activation A in a strongly strong acid or alkaline bath to enable fast dissolution of surface oxides and a pre-nickel plating step PN in a pre-nickel plating bath that coats the aluminum conductor with a primary nickel deposit, and wherein the pre-nickel plating step PN and the activation step A are done jointly and electrolytically with a liquid current connection.
- 6. (original) The process according to claim 5, wherein the compositions of the activation bath and the pre-nickel plating bath are substantially the same.
- 7. (original) The process according to claim 5, wherein the equivalent average thickness of said primary nickel deposit is less than about 0.1 µm.
- 8. (currently amended) The process according to claim  $\pm$  $\underline{55}$ , wherein the pre-treatment step  $extstyle{P}$  comprises an activation  $extstyle{A}$

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in a strongly strong acid or alkaline bath to enable fast dissolution of surface oxides and a pre-nickel plating step PN in which the aluminum conductor is coated with a primary nickel deposit, and wherein the pre-nickel plating step PN and the activation step A are done simultaneously in the same bath.

- 9. (original) The process according to claim 8, wherein the equivalent average thickness of said primary nickel deposit is less than about 0.1  $\mu m$ .
- 10. (currently amended) The process according to claim  $\frac{1}{55}$ , wherein the mechanical contact is immersed in  $\frac{1}{55}$  and  $\frac{1}{55}$  optionally cooled liquid, possibly cooled, such as water or a neutral solution.
- 11. (currently amended) The process according to claim  $\pm$  55, wherein said mechanical <u>electric</u> contact comprises at least one mechanical rolling contact means.
- 12. (currently amended) The process according to claim † 55, wherein several <u>aluminum</u> conductors are treated simultaneously.
- 13. (currently amended) The process according to claim † 55, wherein the aluminum conductor is made of an alloy selected from the group consisting of AA 1370, AA 1110 and AA 6101 according to the nomenclature of the Aluminum Association.
- 14. (currently amended) A process for manufacturing an aluminum electrical cable comprising:
- providing an elementary wire or strand <u>as said aluminum</u> <u>conductor;</u>
- nickel plating said wire or strand using the process according to claim  $\pm$  55;
- making said cable using <u>said</u> at least one nickel plated elementary wire or strand.

Claims 15-28 (canceled).

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- 29. (currently amended) The process according to claim  $\pm$  55, wherein said aluminum conductor is an aluminum strip or aluminum tube.
- 30. (currently amended) The process according to claim  $\pm$  55, wherein said aluminum conductor is a composite aluminum product comprising a base part and at least one clad <u>aluminum</u> alloy layer.
- 31. (original) The process according to claim 30, wherein the clad alloy layer comprises a wetting agent.
- 32. (original) The process according to claim 31, wherein the wetting agent is selected from the group consisting of lead, bismuth, lithium, antimony, tin, silver, thallium and any mixture thereof.
- 33. (original) The process according to claim 31, wherein the clad alloy layer comprises between 0.01 and 1 wt. % of wetting agent.
- 34. (original) The process according to claim 30, wherein the clad alloy layer comprises an aluminum-silicon alloy.
- 35. (currently amended) The process according to claim † 55, wherein the nickel plating step is performed using a nickel plating bath containing a compound of a wetting agent, so as to deposit a nickel coat containing a wetting agent onto the aluminum conductor.
- 36. (original) The process according to claim 35, wherein the compound is selected from the group consisting of the acetates, citrates, sulfamates, fluoborates, lactates, oxides and mixtures thereof.
- 37. (currently amended) The process according to claim 36, wherein said aluminum conductor is a composite aluminum product comprising a base part and at least one clad <u>aluminum</u> alloy layer.
- 38. (original) The process according to claim 37, wherein the clad alloy layer comprises an aluminum-silicon alloy.

- 39. (original) The process according to claim 37, wherein the clad alloy layer comprises a wetting agent.
- 40. (original) The process according to claim 39, wherein the wetting agent is selected from the group consisting of lead, bismuth, lithium, antimony, tin, silver, thallium and any mixture thereof.
- 41. (original) The process according to claim 39, wherein the clad alloy layer comprises between 0.01 and 1 wt. % of wetting agent.
- 42. (currently amended) A process for manufacturing an assembled product comprising the steps of:
- providing as said aluminum conductor a composite aluminum product comprising a base part and at least one clad aluminum alloy layer; and
- nickel plating said composite product according to the process of claim  $\frac{1}{55}$ .
- 43. (original) The manufacturing process according to claim 42, wherein the clad alloy layer comprises a wetting agent.
- 44. (original) The manufacturing process according to claim 43, wherein the wetting agent is selected from the group consisting of lead, bismuth, lithium, antimony, tin, silver, thallium and mixtures thereof.
- 45. (original) The manufacturing process according to claim 43, wherein the clad alloy layer comprises between 0.01 and 1 wt. % of wetting agent.
- 46. (original) The manufacturing process according to claim 42, wherein the clad alloy layer comprises an aluminumsilicon alloy.
- 47. (original) The manufacturing process according to claim 42, wherein said composite product is in the form of a strip or a tube.
  - 48. (original) The manufacturing process according to

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claim 42, wherein the nickel plating is performed using a nickel plating bath containing a compound of a wetting agent, so as to deposit a nickel coat containing a wetting agent onto the aluminum conductor.

- 49. (original) The manufacturing process according to claim 48, wherein the compound is selected from the group consisting of the acetates, citrates, sulfamates, fluoborates, lactates, oxides and mixtures thereof.
- 50. (original) The manufacturing process according to claim 48, wherein the clad alloy layer comprises a wetting agent.
- 51. (original) The manufacturing process according to claim 50, wherein the wetting agent is selected from the group consisting of lead, bismuth, lithium, antimony, tin, silver, thallium and any mixture thereof.
- 52. (original) The manufacturing process according to claim 50, wherein the clad alloy layer comprises between 0.01 and 1 wt. % of wetting agent.
- 53. (original) The manufacturing process according to claim 42, wherein the assembled product is a heat exchanger.
- 54. (original) The manufacturing process according to claim 42, further comprising brazing said composite product.
- 55. (new) A process for continuous nickel plating of an aluminum conductor, comprising the steps of:

electrolytically pre-treating the aluminum conductor to improve adherence of a nickel coat thereon by passing the aluminum conductor through a pre-treating bath in which is disposed an electrode connected to a first current source at a first voltage, for supplying to the aluminum conductor a pre-treating current;

electrolytically plating the pre-treated aluminum conductor with nickel in a plating bath in which is disposed an anode connected to a second current source at a second

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1727 KING STREET ALEXANDRIA, VIRGINIA 22314-2700 voltage, in which a nickel coat is deposited on the conductor by action of a nickel plating current  $\mathbf{I}_{n}$ , and

transmitting at least the nickel plating current  $I_n$  to the conductor through a mechanical electrical contact which contacts the conductor between the pre-treating bath and the plating bath,

wherein said pre-treating improves contact properties of the conductor sufficient to permit the transmitting through the mechanical electrical conductor.